

Abstract

A stripper-plate for a progressive die sets is provided including open-ended tubular guide bushings that project outwardly from at least one side. A first anti-friction bearing assembly is positioned within each of the guide bushings, and a second anti-friction bearing assembly is positioned on an outer surface of each of the guide bushings. A die set is also provided including an upper die shoe having a plurality of guide posts arranged in a pattern and projecting outwardly from a surface. A lower die shoe is arranged in confronting relation to the surface of the upper die shoe, and includes a first plurality of open ended tubular guide bushings positioned so as to each receive a corresponding one of the guide posts. A first anti-friction bearing assembly is positioned within each of the guide bushings. A stripper-plate is positioned between the upper die shoe and the lower die shoes, and includes a second plurality of open-ended tubular guide bushings each having an outer surface and an inner surface. The second guide bushings project outwardly toward the lower die shoe in a pattern that corresponds to the pattern of guide posts. Each of the first anti-friction bearing assemblies slidably engages an outer surface of a corresponding one of the second guide bushing. Each of the second guide bushings includes a second anti-friction bearing assembly that is positioned on an inner surface so as to engage a corresponding one of the guide posts.

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